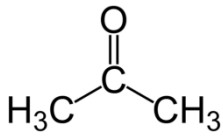



**ANSWERS: Crystal ball questions on Polarity of molecules**

$\text{CS}_2$  non-polar	$\text{N}_2$  non-polar	$\text{CH}_3\text{OH}$  polar
$\text{HCN}$  polar	$\text{PCl}_3$  polar	$\text{O}_2$  non-polar
$\text{CH}_3\text{COCH}_3$  polar	$\text{CH}_4$  non-polar	$\text{C}_2\text{H}_4$  non-polar
$\text{PH}_3$  polar	$\text{SF}_2$  polar	$\text{O}_3$  polar
$\text{NBr}_3$  polar	$\text{HCl}$  polar	

**QUESTION:** For each molecule listed in the table above, explain the reason for your choice